

Message Text

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ACTION IO-14

INFO OCT-01 EUR-12 ISO-00 EA-12 ACDA-12 CIAE-00 INR-10

L-03 NSAE-00 NSC-05 EB-08 NRC-07 OES-07 SOE-02

DODE-00 SS-15 SP-02 CEQ-01 AID-05 CEA-01 COME-00

H-02 INT-05 OMB-01 PM-05 USIA-15 STR-07 TRSE-00

OIC-02 /154 W

-----051748 310135Z /63

R 301720Z MAR 78

FM AMEMBASSY VIENNA

TO SECSTATE WASHDC 0000

INFO USDOEHQ WASHDC

USDOEHQ GERMANTOWN

USDOE ARGONNE NATIONAL LAB ARGONNE IL

USDOE OAK RIDGE NATIONAL LAB OAK RIDGE TN

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USIAEA

DEPT PASS IO/SCT, IO/OIC, S/AS(FARLEY), OES(BORIGHT), AND
ACDA(ROCHLIN) FROM W. HARMS

DOEHQ WASHDC PASS IA(GIAMBUSO) AND AEA(STAKER)

ARGONNE PASS C. TILL

OAK RIDGE PASS R. FITTS, I-200,4500N

E.O. 11652: N/A

TAGS: ENRG, TECH

SUBJECT: INFCE: REPORT OF WORKING GROUP 5, SUB-GROUP B,
MARCH 28-29, 1978

1. WORKING GROUP 5, SUB-GROUP B, THROUGH ITS RAPPORTEURS
DEJONGHE AND VAN DIEVOET (BELGIUM) WILL:

- A. STRONGLY RECOMMEND TO WORKING GROUP 5 THAT A

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SECTION DESIGNATED B.6-FBR CYCLES BASED ON ADVANCED FUELS
BE ADDED TO THE SUB-GROUP B SYLLABUS WITH SBUB-SECTIONS
COMPARABLE TO THOSE FOR THE BALANCE OF THE CHAPTER
(SECTIONS B.1 THROUGH B.5) WHICH IS TO COVER OXIDE FUEL
ONLY.

- B. STRONGLY RECOMMEND TO WG-5 THAT A SECTION DESIGNATED
B.7-NONAQUEOUS PROCESSES, WITH APPROPRIATE SUB-SECTIONS

AS SUGGESTED BY THE U.S., BE ADDED TO THE SUB-GROUP 5B SYLLABUS.

- C. NOT RECOMMEND ADDING TO THE SUB-GROUP B SYLLABUS A SECTION ON SUB-SECTIONS ON ALTERNATIVE FUEL CYCLES BASED ON THORIUM BECAUSE, WHILE IT WAS AGREED THAT SUCH AN ADDITION WOULD NOT BE ILLOGICAL, THE WORKING GROUP ITSELF HAS ALREADY RULED "AFTER MUCH DISCUSSION" THAT ALL ASPECTS OF ALTERNATIVE FBR FUEL CYCLES WILL BE COVERED IN SUB-GROUP D; THUS ANY ACTION TO CHANGE THIS COURSE MUST BE INITIATED AT THE WORKING GROUP LEVEL. (HARMS SUGGESTS THAT THE MATTER BE RAISED AGAIN AT NEXT WEEK'S SUB-GROUP D MEETING AND THAT OUTLINES SUITABLE FOR SUB-GROUPS D AND B BE PREPARED FOR POSSIBLE PRESENTATION AT THAT MEETING.)
- D. SELECT A FUEL CYCLE REFERENCE DATA BASE FROM INPUT BY PARTICIPATING COUNTRIES ON REFERENCE DESIGN PARAMETERS, MASS FLOWS, PLUTONIUM INVENTORIES, ETC., FOR SPECIFIC HOMOGENEOUS CORE, URANIUM-PLUTONIUM OXIDE REACTOR AND FUEL CYCLE DESIGNS NORMALIZED TO 1000 MWE NET. (UK, FRANCE, GERMANY, ITALY AND JAPAN AGREED TO PROVIDE SUCH INPUT, AND THE FRENCH DELEGATE OFFERED A COMPARABLE "REFERENCE" DATA BASE FOR A LARGE HETEROGENEOUS CORE DESIGN.)

2. THE DEFINITIONS OF "MASTER BLEND," "CO-PROCESSED MATERIAL," AND "CO-PRECIPIATED MATERIAL" SUBMITTED BY THE U.S. WERE ADOPTED WITH SLIGHT MODIFICATIONS, AND A UNCLASSIFIED

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DEFINITION OF "PARTIAL PROCESSED MATERIAL" WAS FORMULATED AND AGREED UPON.

3. THE SUB-STRUCTURE RECOMMENDED BY THE U.S. FOR SECTION B.1.3-POSSIBLE TECHNICAL ANTI-PROLIFERATION MEASURES (TITLE CHANGE)-WAS ESSENTIALLY ADOPTED. SUB-SECTION B.1.3.3 ON INSTITUTIONAL MEASURES WAS CONSIDERED TO COME UNDER THE PURVIEW OF SUB-GROUP 5C AND THEREFORE WAS DELETED. (PLEASE REFER HERE AND IN SUBSEQUENT ITEMS TO THE EXTENDED SYLLABUS TRANSMITTED TO STAKER BY AMELINCKX ON 2/14/78.)

4. SECTION B.2.3 ON TECHNICAL MODIFICATIONS TO CONVENTIONAL AQUEOUS PROCESSING (TITLE CHANGE) WAS RESTRUCTURED AND BROUGHT INTO BETTER FOCUS, AND SUB-SECTIONS ON NONAQUEOUS METHODS WERE MOVED TO A NEW SECTION DESIGNATED B.2 (SEE ITEM 1.B ABOVE).

5. SECTION B.3.2 ON IMPACTS OF MODIFIED REPROCESSING ON FUEL FABRICATION WAS SHORTENED CONSIDERABLY AND GIVEN APPROPRIATE OUTLINE SUB-STRUCTURE.

6. SAME AS ITEM 5 ABOVE, BUT FOR SECTION B.3.3 ON DENIAL OF UNAUTHORIZED USE OF FRESH FABRICATED FUEL (TITLE CHANGE).

7. A SUB-SECTION ON REACTOR WASTES WAS ADDED TO SECTION B.5.1.

8. THE UK DELEGATE TABLED THE WALTER MARSHALL GLASGOW LECTURE ON NUCLEAR POWER AND THE PROLIFERATION ISSUE.

9. THE IAEA DELEGATE TABLED "REPORT OF THE IAEA ADVISORY GROUP MEETING ON LMFBR REPROCESSING," IAEA-AG-63-27, LENINGRAD, MAY 1976. IT IS A WELL-ORGANIZED REVIEW OF

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THE STATUS OF DEVELOPMENT IN THIS FIELD BY COUNTRY.

10. IT WAS APPARENT THAT SEVERAL DELEGATES (PRINCIPALLY THE UK, GERMANY, AND FRANCE) INTEND TO MEET THEIR COMMITMENTS TO SUB-GROUP 5B SIMPLY BY TABLING EXISTING DOCUMENTS, SOME NOT SO RECENT. THE RAPPORTEURS HAVE NO CONTROL OVER THIS PRACTICE BUT DISCOURAGED IT BECAUSE OF THE EXTRA WORK THAT IT WOULD REQUIRE ON THEIR PART.

11. ALL MAJOR COUNTRIES (USA, USSR, UK, FRANCE, GERMANY, JAPAN) WERE REQUESTED TO PROVIDE AN INDICATION OF ANTICIPATED FBR INTRODUCTION DATES AND DEPLOYMENT RATES, EVEN THOUGH OFFICIAL INFCE INPUT BASED ON

SURVEYS BY WG-1 AND WG-2 WILL BE PROVIDED LATER.

12. DRAFTS OF CONTRIBUTIONS TO SECTION 5B OF THE REPORT
BASED ON THE LATEST REVISED SYLLABUS WERE REQUESTED BY
JUNE 30, 1978.

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13. SUB-GROUP 5B WILL MEET AGAIN IN VIENNA ABOUT TWO
WEEKS PRIOR TO THE NEXT WG-5 MEETING (NOW TENTATIVELY
SCHEDULED FOR THE SECOND HALF OF SEPTEMBER 1978) TO
SYNTHESIZE A SET OF ALTERNATIVE STRATEGIES BASED ON
THE INFORMATION AND REFERENCE DATA PROVIDED THROUGH THE
REVISED SYLLABUS DEVELOPED AT THIS MEETING.

14. IF THERE ARE ANY QUESTIONS, HARMS CAN BE REACHED
THROUGH THE US MISSION TO IAEA, 34-66-11, EXT. 4739.

15. HARMS PLANS TO MEET WITH TILL AT ARGONNE ON MONDAY,
APRIL 3, FOR FURTHER DISCUSSIONS. A. GIAMBUSSO HAS
SUGGESTED THAT STAKER AND NERO JOIN THIS DISCUSSION
AND PARTICIPATE IN THE PLANNING OF APPROACHES FOR
MEETINGS OF SUB-GROUP D ON APRIL 6 AND WG-5 ON APRIL 23.
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Message Attributes

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